UltraWAVE Micro IP BS Plus

IP GSM Base Station Controller and Base Transceiver Station

The UltraWAVE Micro IP BS Plus is an integrated base station controller (BSC) and base transceiver station (BTS) in a single enclosure.

UltraWAVE R4S softswitch and Micro IP BS Plus work hand-in-hand to reduce the total cost of network ownership, providing a network growth path for existing and future customers, and expand the addressable markets of ADC's GSM products. They serve as the flagship GSM product line for ADC.

Thanks to its All-IP architecture, Micro IP BS Plus backhauls traffic to carrier networks via an IP connection over DSL or cable modem networks, this allows for faster and simpler setup and configuration than any other products.

SPEC SHEET

Key BS Plus Features:

- SMS support
- Sectorization supported
- GPRS supported (CS-1, CS-2, CS-3, CS-4)
- 2-way combined PA output at the antenna port
- Full alarm reporting to OMC

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The Micro product line provides a compact and cost-effective platform, which helps lower the cost of network ownership. They are easy to upgrade or repair in the field and provide a range of new monitoring and control functions. The UltraWAVE Micro IP BS Plus supports up to two TRXs in one chassis. With a single compact chassis, it can support an S11 or O2 site. It has the industry leading power amplifier of up to 50 Watts when configured for 850, 900, 1800 and 1900 MHz GSM networks. Micro supports all the key BTS features, such as frequency hopping, sectorization, and GPRS.

The Micro IP BS Plus increases the BTS coverage with industry leading power output (50W measured at antenna port without combining). Receive sensitivity with antenna diversity is up to -114 dBm. Designed for easy expansion of the BTS capacity, the Micro BS Plus is field upgradable. Operators can start with a small system and pay as they go to add capacity.

The Micro IP BS Plus is designed for low cost maintenance with remote monitoring, external alarms, overheating protection, redundant power supply, field replaceable modules, and easy front access. It can reduce the on-going operation expenses for the operators. An integrated turn-key BTS package option is available with transmission, battery, and other site equipment.

Features:

- Available in 850, 900, 1800 and 1900 MHz frequency bands
- Frequency hopping
- Sectorization
- General Packet Radio Service (GPRS)
- Dynamic power control (uplink and downlink)
- Significantly improved BTS sensitivity: -114 dBm (optimal combining diversity) or -111 dBm (no diversity)
- Remote monitoring: Temperature, fan, power supply (PSU), power amp, VSWR can be monitored from central office enabling remote diagnosis and quick recovery
- External alarms for third party equipment are also supported.
- Optional redundant power supply with PSU failure alarm support.
- -48 VDC power supply. AC rectifier available.
- Integrated full rack solution available: UltraWAVE integrated with additional on-site equipment such as transmission, battery backup, etc. in one rack.
- Common hardware modules: single slot TRX, ICP, RFU.
- Supports AMR,EFR, FR codecs. Upgradable to EDGE.

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Specifications

BTS Configurations (single cabinet):	O1, O2, S11
Frequency Support:	GSM 850 MHz, GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz
CAPACITY	
Number of TRXs:	2 internal
Number of Traffic Channels:	15 EFR traffic channels or 30 AMR/HR traffic channels
Traffic Capacity:	9.0 Erlangs @ 2% GoS (O2, EFR) 21.4 Erlangs @ 2% GoS (O2, AMR/HR)
Output Power:	Up to 50 Watts
Speech Coding:	EFR, AMR/HR 5.9 kbps
RF Receiver Sensitivity:	-111dBm without diversity -114 dBm with diversity
INTERFACES	
RF Interface:	GSM Compliant Um Interface; GSM Spec. 04.06, 04.08, 05.01- 05.05, 05.08 & 05.10; GSM spec 03.64, 04.60 (Rel 98)
MSC Interface:	Compliant A interface over SIGTRAN
Network Interface:	100 Mbps Ethernet, RJ-45 connector
Serial Port:	RS232, RJ-45 connector
OPERATION	
Remote Monitoring:	Monitor temperature, PA, fan, PSU, VWSR from central office; External alarms supported
Overtemp Protection:	Automatic detection and intervention
Access to Equipment:	Front and Rear Access
Field Support:	All modules are field replaceable
POWER SUPPLY	
Input Voltage:	-48 VDC; 110/220 VAC optional
Redundancy:	Redundant power supply
Alarm:	PSU failure alarm reported OMC
MECHANICAL	
Rack Mount:	Versatile mounting options for 19", 23" and 24" racks
Radio Chassis Dimensions (HxWxD):	1051 x 560 x 647 mm (41.8 x 22.05 x 25.5 inches)
Weight:	213 kg (470 lbs)
OPERATING ENVIRONMENT	
Temperature:	-5° to 55° C (23° to 131° F)
Humidity (non-condensing):	10% to 90%
COMPLIANCE:	EN60950, UL60950 FCC license for 850MHz/1900MHz CE marking for 900MHz/1800MHz

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